

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
**(Under 37 CFR 1.97(b) or 1.97(c))**

Docket No.  
19781

In Re Application Of: **Angeline Ingrid Bartholomeusz, et al.**

Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
10/576,906	April 21, 2006	Unassigned	23389	1645	7415

Title: **HBV VARIANTS DETECTION AND APPLICATION**



Address to:  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

**37 CFR 1.97(b)**

1.  The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

**37 CFR 1.97(c)**

2.  The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:
  - the statement specified in 37 CFR 1.97(e);
  - OR**
  - the fee set forth in 37 CFR 1.17(p).

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10/576,906	April 21, 2006	Unassigned	23389	1645	7415

Title:

OBV-VARIANTS DETECTION AND APPLICATION



**Payment of Fee**

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- A check in the amount of \_\_\_\_\_ is attached.
- The Director is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMP as described below.
  - Charge the amount of \_\_\_\_\_
  - Credit any overpayment.
  - Charge any additional fee required.
- Payment by credit card. Form PTO-2038 is attached.

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April 12, 2007

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Signature of Person Mailing Correspondence

Xiaochun Zhu

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 Signature

Dated: April 12, 2007

Xiaochun Zhu

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 516-742-4343

CC:



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Applicants:** Angeline Ingrid Bartholomeusz, et al.    **Examiner:** Unassigned

**Serial No.:** 10/576,906                                  **Art Unit:** 1645

**Filed:** April 21, 2006                                  **Docket:** 19781

**For:** HBV VARIANTS DETECTION  
AND APPLICATION    **Dated:** April 12, 2007

**Confirmation No.:** 7415

Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. §§1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

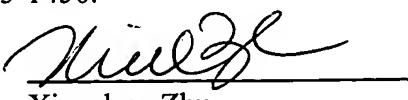
1. Chen W.N. et al., "Human Hepatitis B Virus Mutants: Significance of Molecular Changes", *FEBS Letters* 453(3):237-242 (1999), XP004259880;
2. Stuyver L.J. et al., "Nomenclature for Antiviral-Resistant Human Hepatitis B Virus Mutations in the Polymerase Region", *Hepatology* 33(3):751-757 (2001), XP009029630;
3. PCT International Publication No. WO 01/94559 A1, published December 13, 2001;

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**CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: April 12, 2007



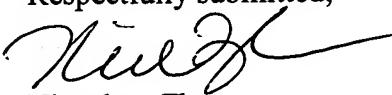
Xiaochun Zhu

4. Bartholomew M.M. et al., "Hepatitis-B-Virus Resistance to Lamivudine Given for Recurrent Infection After Orthotopic Liver Transplant Ation", *Lancet* 349(9044):20-22 (1997), XP004843545;
5. Bartholomeusz A. et al., "Mutations in the Hepatitis B Virus Polymerase Gene that are Associated with Resistance to Famciclovir and Lamivudine", *International Antiviral News* 5(8):123-124 (1997), XP002044248;
6. Alestig E. et al., "Phylogenetic Origin of Hepatitis B Virus Strains with Precore C-1858 Variant", *Journal of Clinical Microbiology* 39(9):3200-3203 (2001), XP002419805; and
7. Günther S. et al., "Analysis of Hepatitis B Virus Populations in an Interferon- $\alpha$ -Treated Patient Reveals Predominant Mutations in the C-Gene and Changing e-Antigenicity", *Virology* 244(1):146-160 (1998), XP004845022.

References 1-3 were cited in a Supplementary Partial Search Report dated December 12, 2006 received from the European Patent Office. References 1-7 were cited in a Supplementary Partial Search Report dated February 26, 2007 received from the European Patent Office. Applicants are submitting copies of the above-cited references as well as copies of the Search Reports. The relevance of the above-identified references has been described in the Supplementary Partial Search Reports.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(b), no petition, certification or fee is required.

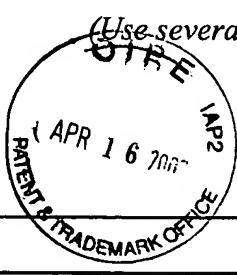
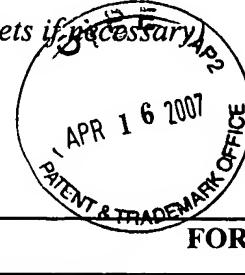
Respectfully submitted,



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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE		Atty. Docket No. (Optional)		Application Number				
<b>LIST OF PRIOR ART CITED BY APPLICANT</b>		19781		10/576,906				
 		<b>Applicant(s)</b> Angeline Ingrid Bartholomeusz, et al. <b>Filing Date</b> April 21, 2006 <b>Group Art Unit</b> 1645						
<b>FOREIGN PATENT DOCUMENTS</b>								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		WO 01/94559 A1	12/13/01	PCT			✓	
<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)								
		Chen W.N. et al., "Human Hepatitis B Virus Mutants: Significance of Molecular Changes", <i>FEBS Letters</i> 453(3):237-242 (1999), XP004259880						
		Stuyver L.J. et al., "Nomenclature for Antiviral-Resistant Human Hepatitis B Virus Mutations in the Polymerase Region", <i>Hepatology</i> 33(3):751-757 (2001), XP009029630						
		Bartholomew M.M. et al., "Hepatitis-B-Virus Resistance to Lamivudine Given for Recurrent Infection After Orthotopic Liver Transplant Ation", <i>Lancet</i> 349(9044):20-22 (1997), XP004843545						
		Bartholomeusz A. et al., "Mutations in the Hepatitis B Virus Polymerase Gene that are Associated with Resistance to Famciclovir and Lamivudine", <i>International Antiviral News</i> 5(8):123-124 (1997), XP002044248						
		Alestig E. et al., "Phylogenetic Origin of Hepatitis B Virus Strains with Precore C-1858 Variant", <i>Journal of Clinical Microbiology</i> 39(9):3200-3203 (2001), XP002419805						
		Günther S. et al., "Analysis of Hepatitis B Virus Populations in an Interferon- $\alpha$ -Treated Patient Reveals Predominant Mutations in the C-Gene and Changing e-Antigenicity", <i>Virology</i> 244(1):146-160 (1998), XP004845022						
EXAMINER			DATE CONSIDERED					
<small>* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>								